

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P318037

Luminaire Tested: **GAN-SA3B-730-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318037
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3B-730-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15592 lumens
Efficiency: N/A
Efficacy: 125.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

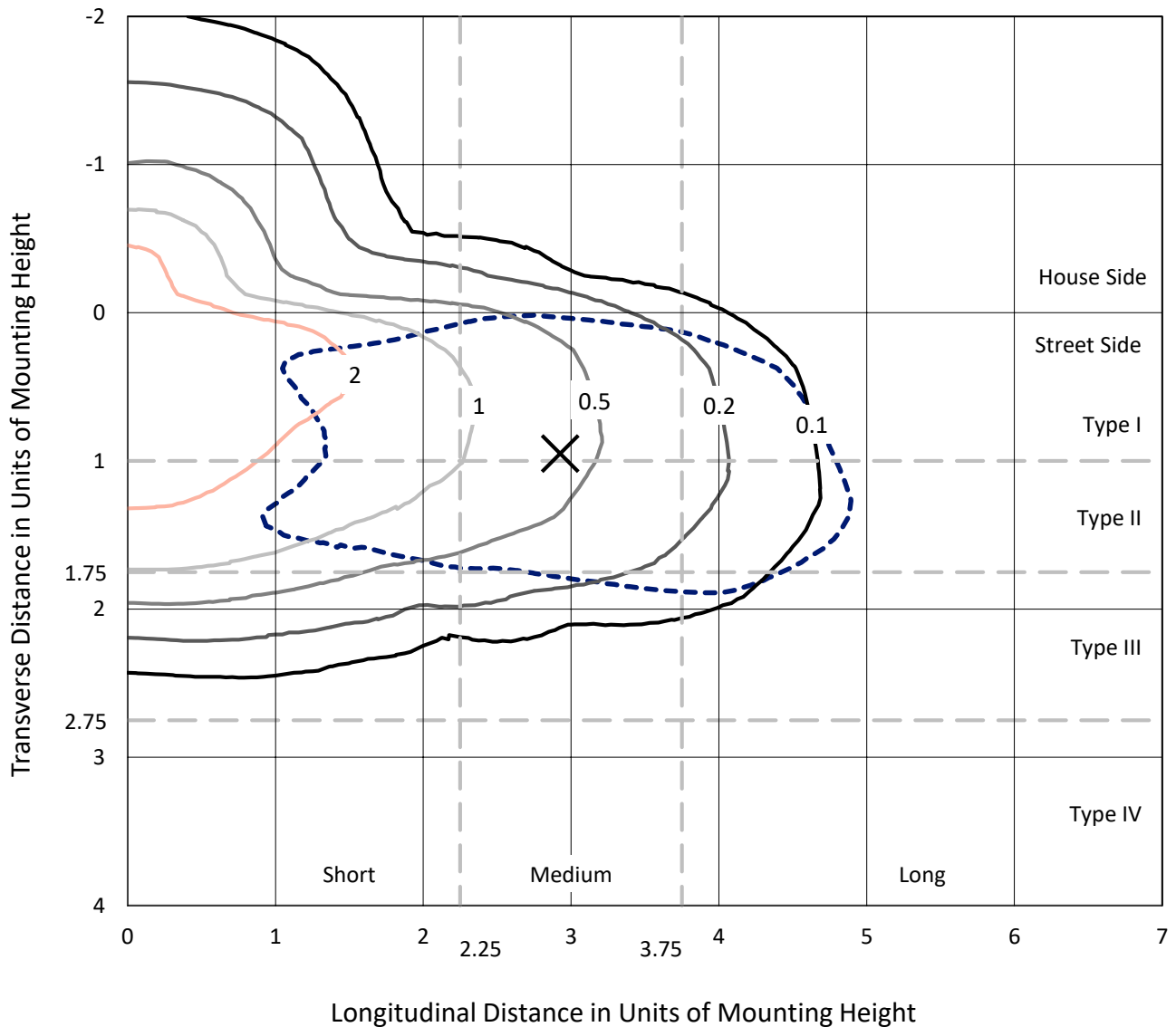
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

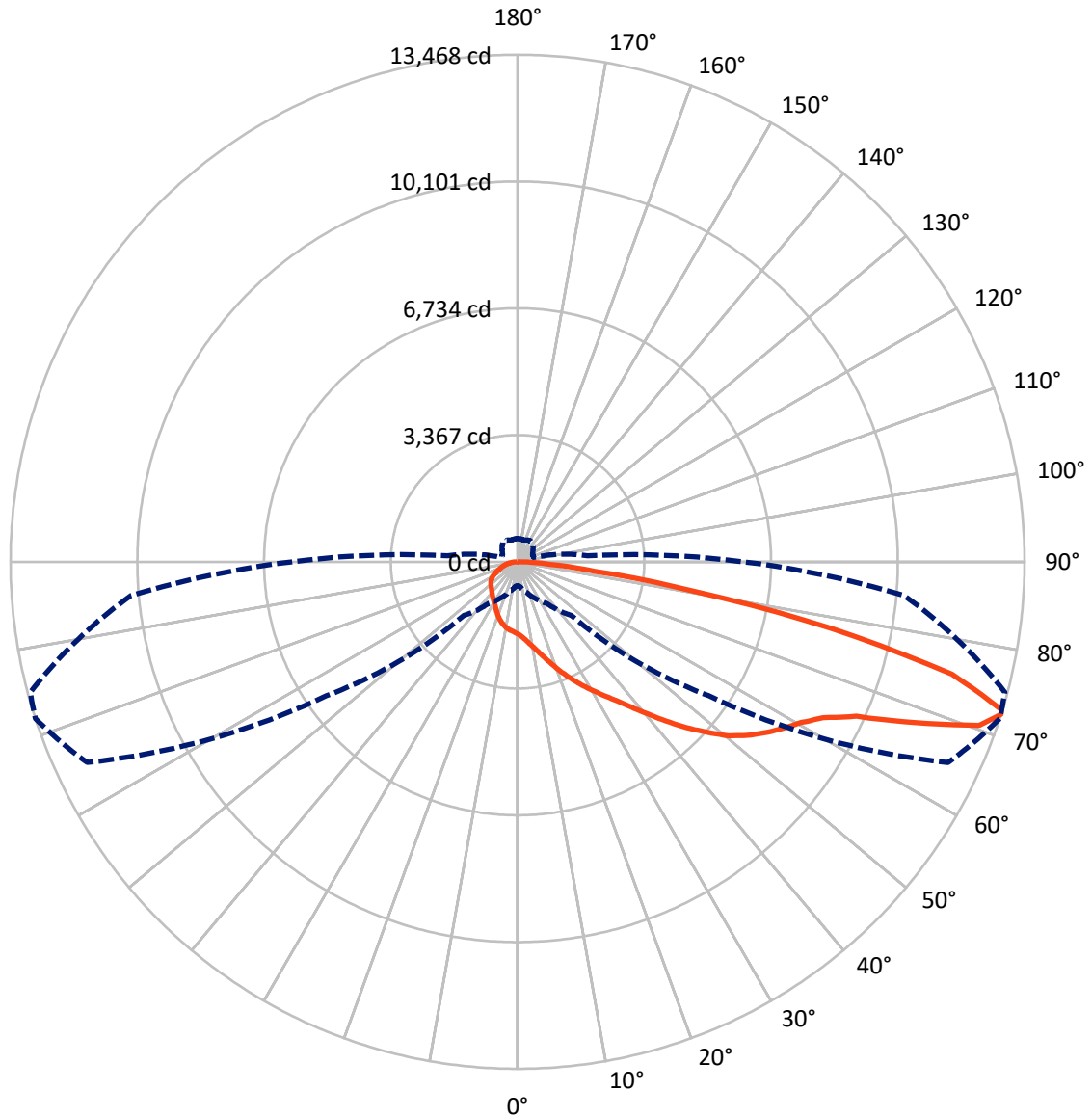
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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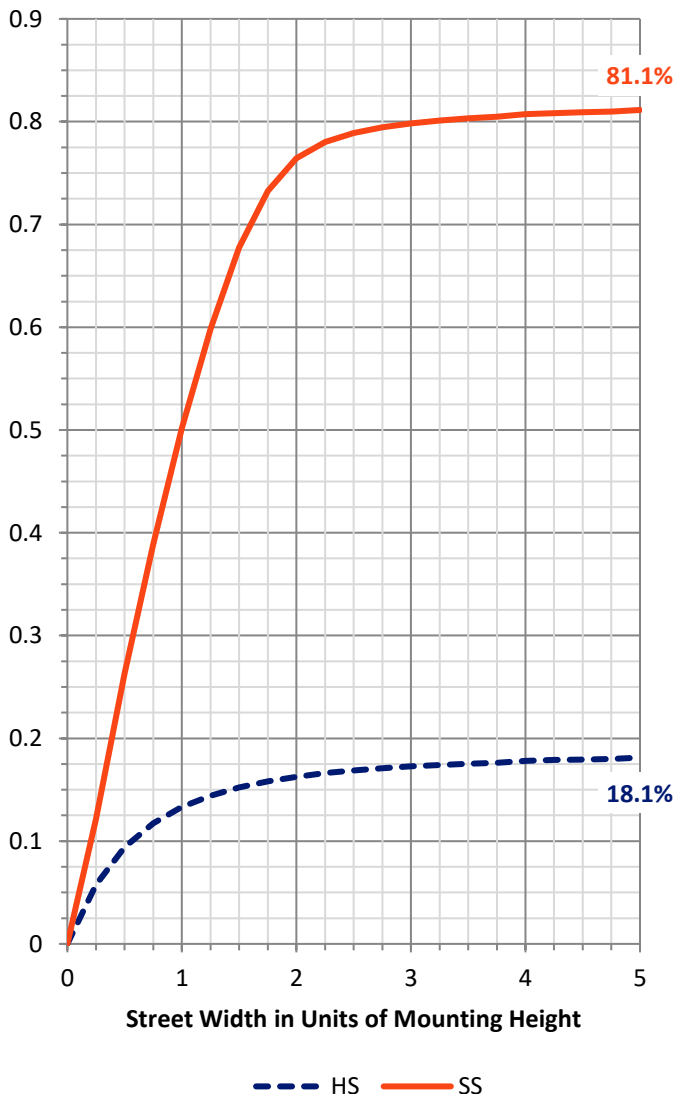
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2892.4	0.0	2892.4
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	12699.6	0.0	12699.6
	% Fixture	81.4	0.0	81.4
Total	Lumens	15592.0	0.0	15592.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.2	1.2
10°-20°	621.1	4.0
20°-30°	1088.4	7.0
30°-40°	1613.8	10.4
40°-50°	2360.3	15.1
50°-60°	3247.8	20.8
60°-70°	3615.7	23.2
70°-80°	2450.0	15.7
80°-90°	402.7	2.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	15592.0	100.0
0°-180°	15592.0	100.0

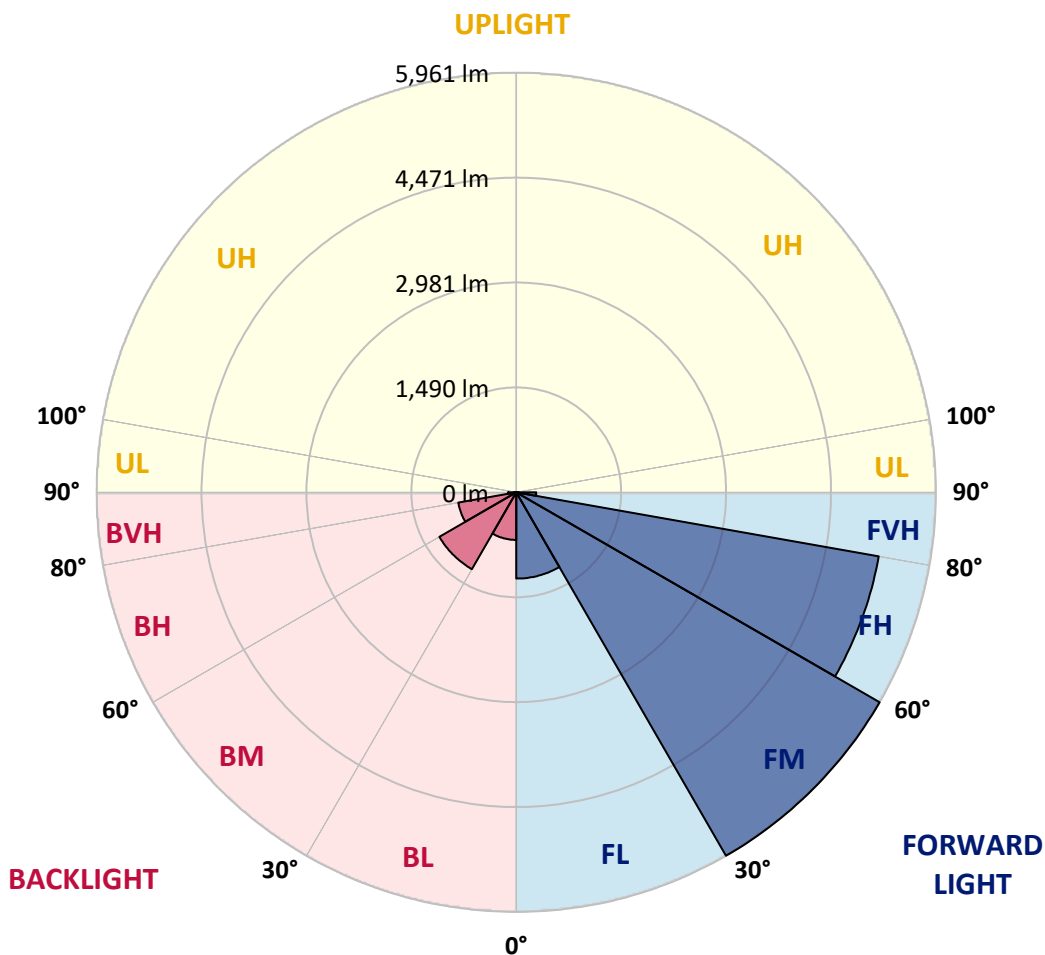


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1225.6	7.9			
FM (30°-60°)	5961.0	38.2			
FH (60°-80°)	5228.9	33.5			G3/7500
FVH (80°-90°)	284.0	1.8			G3/500
BL (0°-30°)	676.1	4.3	B2/1000		
BM (30°-60°)	1260.8	8.1	B2/2500		
BH (60°-80°)	836.8	5.4	B2/1000		G2/1000
BVH (80°-90°)	118.6	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	1918.2	1918.2	1918.2	1918.2	1918.2	1918.2	1918.2	1918.2	1918.2	1918.2	1918.2
2.5°	2119.0	2115.8	2104.5	2104.5	2083.0	2064.8	2030.4	2007.3	1980.0	1970.3	1938.1
5°	2324.1	2325.2	2311.2	2301.5	2269.9	2231.2	2172.7	2119.5	2066.4	2044.9	1978.9
7.5°	2496.4	2494.3	2490.5	2482.5	2452.9	2413.2	2334.3	2255.4	2177.0	2144.8	2031.0
10°	2607.0	2611.9	2615.1	2618.8	2606.5	2578.0	2503.4	2407.3	2304.8	2260.7	2093.2
12.5°	2662.9	2671.4	2686.5	2712.2	2732.6	2729.4	2675.2	2573.2	2451.3	2396.0	2171.1
15°	2695.6	2706.9	2730.5	2776.7	2834.1	2866.9	2852.4	2760.0	2624.2	2556.0	2266.1
17.5°	2716.0	2725.1	2761.6	2823.4	2908.7	2995.7	3033.8	2956.5	2819.6	2741.8	2375.1
20°	2730.0	2736.9	2782.6	2855.1	2965.6	3104.2	3210.5	3191.1	3034.9	2934.0	2488.9
22.5°	2761.1	2767.0	2810.5	2883.5	3005.9	3184.7	3380.6	3409.6	3262.0	3147.6	2610.8
25°	2848.1	2848.1	2884.6	2935.6	3050.5	3254.5	3524.5	3652.8	3493.9	3360.8	2723.5
27.5°	3014.0	3012.4	3025.8	3043.5	3130.5	3325.3	3652.8	3867.6	3734.4	3589.0	2833.0
30°	3210.5	3221.2	3222.8	3214.2	3255.0	3413.9	3771.5	4094.1	3976.6	3819.8	2945.2
32.5°	3463.3	3470.3	3462.2	3433.8	3427.9	3539.6	3888.0	4331.4	4238.6	4060.9	3047.8
35°	3784.4	3770.9	3745.7	3687.7	3632.4	3707.6	4021.1	4568.7	4532.8	4352.4	3189.0
37.5°	4128.5	4129.0	4097.9	3966.4	3890.1	3922.3	4204.7	4837.7	4888.7	4699.2	3369.9
40°	4404.4	4418.9	4438.3	4265.4	4166.6	4211.2	4438.3	5149.6	5309.6	5110.4	3605.6
42.5°	4597.2	4613.8	4668.6	4560.1	4457.6	4540.3	4713.1	5482.5	5782.0	5585.0	3881.5
45°	4801.2	4810.3	4849.0	4802.3	4736.8	4923.1	5022.9	5827.1	6281.9	6090.7	4190.2
47.5°	5015.9	5025.6	5065.3	5034.2	4999.8	5280.6	5346.1	6151.9	6760.8	6646.4	4519.9
50°	5281.2	5287.6	5325.2	5268.8	5279.5	5550.1	5634.9	6449.9	7262.7	7145.7	4850.6
52.5°	5643.0	5644.6	5696.7	5645.7	5595.2	5747.7	5883.5	6730.7	7656.2	7601.0	5181.3
55°	5926.5	5943.6	6114.4	6103.6	6074.6	5927.0	6091.3	6998.1	8007.4	8033.7	5532.4
57.5°	5745.5	5812.6	6158.4	6402.1	6639.4	6373.1	6372.1	7299.2	8333.8	8458.3	5918.4
60°	5032.0	5123.3	5632.8	6173.4	6915.9	7149.4	6955.1	7667.0	8663.4	8879.2	6402.1
62.5°	3593.8	3744.1	4434.5	5297.8	6536.9	7663.8	8141.6	8250.6	9111.7	9366.7	7030.8
65°	1816.8	1930.6	2509.3	3549.2	5222.6	7327.7	9431.1	9528.3	9890.7	10117.2	7998.8
67.5°	1103.8	1146.7	1429.1	1974.1	3201.9	5708.0	9852.0	11658.0	11398.2	11518.5	9379.1
70°	813.4	845.0	1021.1	1311.0	1841.5	3349.5	8560.3	13177.9	13007.2	12993.8	10399.1
72°	633.5	656.6	812.3	1059.2	1346.5	2009.5	6204.6	12616.9	13467.8	13400.2	10305.7
72.5°	600.8	621.2	762.9	997.0	1272.4	1821.6	5578.6	12238.4	13434.5	13403.9	10184.9
75°	473.0	487.5	564.8	770.9	995.9	1033.5	3056.9	9484.3	11917.9	12413.4	9160.5
77.5°	391.4	393.5	434.3	561.0	776.3	730.7	1501.6	6580.4	8534.0	9078.9	6489.1
80°	318.9	321.6	340.9	393.5	587.3	540.6	713.0	3783.8	4778.1	4784.0	3085.9
82.5°	253.9	254.5	275.9	287.8	422.0	386.5	408.6	1776.5	2087.9	2008.4	1109.2
85°	178.8	175.0	269.5	236.2	275.9	248.0	225.5	703.3	863.3	825.7	347.4
87.5°	59.6	61.7	119.7	153.0	161.1	140.7	100.4	269.5	325.9	323.2	110.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1918.2	1918.2	1918.2	1918.2	1918.2	1918.2	1918.2	1918.2	1918.2	1918.2	1918.2
2.5°	1927.9	1910.7	1885.5	1857.6	1835.5	1813.0	1796.4	1787.8	1778.1	1770.0	1779.7
5°	1948.3	1916.1	1862.4	1809.8	1771.1	1736.8	1712.1	1699.2	1687.4	1679.3	1680.4
7.5°	1981.6	1929.5	1839.3	1762.5	1708.8	1671.8	1646.6	1638.0	1630.5	1628.3	1631.0
10°	2017.0	1940.2	1808.7	1706.7	1645.5	1614.9	1603.6	1609.5	1614.9	1619.7	1625.1
12.5°	2057.3	1949.9	1764.1	1641.2	1589.1	1577.3	1588.6	1614.4	1633.1	1644.4	1651.4
15°	2109.9	1958.5	1712.6	1575.7	1540.8	1554.2	1592.3	1636.9	1669.7	1690.6	1693.8
17.5°	2158.2	1958.0	1646.6	1509.7	1501.6	1540.8	1598.3	1661.1	1705.1	1734.6	1740.5
20°	2208.1	1943.5	1569.8	1445.2	1461.9	1526.3	1600.9	1676.6	1729.8	1764.1	1772.2
22.5°	2254.8	1918.2	1485.5	1386.7	1428.6	1507.0	1590.7	1667.5	1720.7	1748.6	1757.2
25°	2286.5	1874.2	1400.1	1337.3	1399.1	1483.4	1557.4	1619.2	1658.9	1672.9	1675.0
27.5°	2302.6	1816.8	1319.6	1294.4	1368.5	1444.7	1495.7	1526.3	1537.6	1536.5	1534.4
30°	2304.8	1741.1	1250.4	1259.5	1333.0	1387.8	1412.0	1406.1	1391.6	1366.9	1369.0
32.5°	2297.8	1655.7	1192.4	1226.2	1287.9	1318.5	1319.6	1291.2	1252.5	1213.3	1202.6
35°	2299.9	1571.9	1141.4	1188.6	1233.2	1246.6	1234.3	1192.4	1139.8	1089.3	1078.6
37.5°	2323.6	1498.9	1097.4	1145.1	1172.5	1175.7	1158.0	1114.0	1075.3	1026.0	1021.7
40°	2379.9	1446.9	1055.5	1096.3	1111.8	1113.5	1088.2	1057.1	1060.3	1034.0	1033.5
42.5°	2481.4	1424.3	1018.4	1045.3	1054.9	1058.2	1038.8	1019.0	1046.9	1029.7	1023.8
45°	2612.4	1429.7	987.3	995.3	1013.1	1028.1	1016.3	992.1	1002.9	928.2	903.5
47.5°	2763.8	1464.0	962.6	952.4	983.0	1011.5	993.2	956.7	918.6	844.5	830.5
50°	2941.0	1517.2	940.1	910.0	950.3	988.9	970.7	918.6	861.1	825.2	820.3
52.5°	3125.6	1582.1	917.5	863.3	908.9	971.7	962.6	910.0	839.1	803.7	797.2
55°	3335.0	1647.6	889.1	809.1	864.4	963.7	958.8	878.8	822.5	802.6	797.8
57.5°	3595.4	1722.3	851.5	752.7	822.5	934.7	919.7	860.1	805.3	790.3	788.7
60°	3934.7	1832.3	797.2	692.6	771.5	890.1	886.9	832.7	777.9	767.2	765.0
62.5°	4443.6	2014.3	722.6	632.4	714.6	814.4	844.0	795.6	748.9	748.4	749.5
65°	5232.8	2288.1	641.6	579.8	657.1	750.5	794.0	757.5	719.4	730.1	731.7
67.5°	6147.7	2515.2	562.1	528.3	598.6	689.9	748.9	719.4	680.2	708.1	708.7
70°	6452.1	2312.3	492.3	477.3	537.9	631.4	700.1	677.5	637.8	665.7	663.0
72°	6004.3	1866.7	447.2	438.6	492.3	583.0	656.6	638.3	599.1	617.9	611.0
72.5°	5863.1	1779.7	435.9	429.0	480.0	570.7	645.3	628.7	589.5	605.6	599.1
75°	5230.2	1545.6	374.7	376.3	418.8	510.6	582.0	576.6	536.3	537.9	535.8
77.5°	3793.5	1133.3	315.7	326.4	356.5	448.8	518.1	514.9	470.8	462.8	461.2
80°	1760.4	578.2	257.2	262.0	293.1	375.3	441.8	437.5	402.1	391.9	386.0
82.5°	602.9	274.9	193.3	196.5	227.1	302.3	383.3	380.6	351.1	331.2	318.9
85°	215.3	136.9	135.3	132.1	162.1	237.8	333.9	319.4	275.9	235.1	234.1
87.5°	69.8	58.5	69.8	69.3	94.5	161.1	242.7	206.7	200.3	166.4	163.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)